

In the Claims:

Please amend claims 1, 21, and 37. The changes are shown explicitly in the attached "Version With Markings to Show Changes Made."

Sub B1  
A8

1 1. (Once Amended) A patient monitoring system comprising:  
2 (A) a non-invasive cardiac output sensor, the non-invasive  
3 cardiac output sensor being capable of acquiring a signal from a patient  
4 indicative of blood flow through a heart of the patient;  
5 (B) a multi-lead electrocardiogram (ECG) sensor, the multi-lead  
6 ECG sensor comprising a plurality of ECG electrodes capable of acquiring a  
7 plurality of ECG signals from the patient; and  
8 (C) a patient monitor console, including  
9 (1) an analysis module, the analysis module being  
10 coupled to the non-invasive cardiac output sensor and to the multi-lead  
11 ECG sensor, the analysis module processing the signal from the patient  
12 indicative of blood flow to produce a value pertaining to cardiac output,  
13 and  
14 (2) a display, the display being coupled to the analysis  
15 module, and the display displaying the value pertaining to cardiac output  
16 and an ECG waveform generated based on the ECG signals.

Sub B1  
A9

1 21. (Once Amended) A patient monitoring system comprising:  
2 (A) a non-invasive cardiac output sensor, the non-invasive  
3 cardiac output sensor being capable of acquiring a signal from a patient  
4 indicative of blood flow through a heart of the patient;  
5 (B) a communication interface, the communication interface  
6 being capable of establishing a communication link between the patient  
7 monitoring system and a local area network of a medical facility in which the  
8 patient monitoring system is located; and  
9 (C) a patient monitor console, including  
10 (1) an analysis module, the analysis module being  
11 coupled to the non-invasive cardiac output sensor, the analysis module  
12 processing the signal from the patient indicative of blood flow to produce  
13 a value pertaining to cardiac output, and

14 (2) a display, the display being coupled to the analysis  
15 module, and the display displaying the value pertaining to cardiac output;  
16 and

17 wherein the communication interface is capable of transmitting the  
18 value pertaining to cardiac output over the local area network.

1 37. (Once Amended) A patient monitoring system comprising:

2 (A) a non-invasive cardiac output sensor, the non-invasive  
3 cardiac output sensor being capable of acquiring a signal from a patient  
4 indicative of blood flow through a heart of the patient, the non-invasive cardiac  
5 output sensor comprising first and second electrodes;

6 (B) a multi-lead electrocardiogram (ECG) sensor, the multi-lead  
7 ECG sensor comprising a plurality of ECG electrodes capable of acquiring a  
8 plurality of ECG signals from the patient;

9 (C) a blood pressure sensor, the blood pressure sensor being  
10 capable of acquiring blood pressure information from the patient;

11 (D) a pulse oximetry sensor, the pulse oximetry sensor being  
12 capable of acquiring pulse oximetry information from the patient;

13 (E) a carbon dioxide sensor, the carbon dioxide sensor being  
14 capable of acquiring information pertaining to carbon dioxide content in  
15 respiratory gas of the patient;

16 (F) a patient monitor console, including

17 (1) an analysis module, the analysis module being  
18 coupled to the non-invasive cardiac output sensor, the multi-lead ECG  
19 sensor, the blood pressure sensor, the pulse oximetry sensor, and the  
20 carbon dioxide sensor, the analysis module processing the signal from the  
21 patient indicative of blood flow to produce a value pertaining to cardiac  
22 output, the analysis module producing the value pertaining to cardiac  
23 output by determining an impedance between the first and second  
24 electrodes, the impedance between the first and second electrodes being  
25 a function of an amount of blood located in a blood flow path that passes  
26 through the heart of the patient, the value pertaining to cardiac output  
27 pertaining to a volume of blood pumped by the heart per unit time,